

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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<p>This is the fifth edition of the White Sands Missile Range Climate Calendar, which was first published in May, 1963.</p> <p>Mean daily maximum and minimum temperatures, and extreme temperatures for the period of record (1950-1971) are tabulated in calendar form for "A" Station, the forecast center located at Headquarters, White Sands Missile Range, New Mexico. Averages of temperature, relative humidity, wind and cloudiness are included for each month, as well as maximum 24-hour and monthly rainfall.</p> <p>Supplementary tables give monthly, seasonal and annual values of maximum winds, degree days, solar radiation, means and extremes of station pressure, the greatest monthly and single-storm snowfall, and the average six-hourly relative humidities. Also included are the average number of days with the occurrence of precipitation, distant lightning, thunderstorms, and visibility restrictions.</p>			

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WHITE SANDS MISSILE RANGE

CLIMATE CALENDAR

By

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and

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DR-707

DA Task 1T665702D127-02

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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FOREWORD

This report is a revision of Data Report 421, published under the same title in March 1969. The revision updates the original data to cover the period through December 1971.

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ABSTRACT

This is the fifth edition of the White Sands Missile Range Climate Calendar, which was first published in May, 1963.

Mean daily maximum and minimum temperatures, and extreme temperatures for the period of record (1950-1971) are tabulated in calendar form for "A" Station, the forecast center located at Headquarters, White Sands Missile Range, New Mexico. Averages of temperature, relative humidity, wind and cloudiness are included for each month, as well as maximum 24-hour and monthly rainfall.

Supplementary tables give monthly, seasonal and annual values of maximum winds, degree days, solar radiation, means and extremes of station pressure, the greatest monthly and single-storm snowfall, and the average six-hourly relative humidities. Also included are the average number of days with the occurrence of precipitation, distant lightning, thunderstorms, and visibility restrictions.

ACKNOWLEDGEMENTS

We are indebted to Paul H. Taft who prepared the first four editions of this work. The format and basic contents are largely his effort.

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INTRODUCTION

The weather site designated as "A" Station is in the Headquarters area of White Sands Missile Range (WSMR). Its geographic coordinates are 32° 22.7' North and 106° 28.8' West (Fig. 1). The elevation of the Station Barometer is 4,238.4 feet above sea level. The climatological data in this report are for a period of 22 years, 1950 through 1971, unless otherwise indicated. (Daily temperature means and extremes only have been computed through December 1971.) The station was initially operated by the Air Force, but since April 1961, it has been manned by U. S. Army personnel.

Temperature, wind, precipitation and relative humidity are measured with instruments mounted on the roof of the weather station building, No. 1510. (The elevation of the floor of the instrument shelter is 4,252 feet.) However, since May 1955 wind measurements have been made by an Aerovane mounted on a 13-foot mast 0.5 miles west--279°--from the station, (elevation of Aerovane, 4,304.05 feet) with indicators and recorders for wind speed and direction installed in the weather station building.

Temperature extremes are the highest (maximum) and the lowest (minimum) temperatures which have occurred for each day of the year for the period of record. Temperatures are given in degrees Fahrenheit, wind speeds are in knots, and rainfall and snowfall are reported in inches.

The data in this report are considered to be representative of the Headquarters area. However, due to the great extent and extreme variations in elevation and topography of WSMR (4,000 square miles, from dry lake beds--"playas"--at 3,900 feet to mountain peaks near 9,000 feet, Fig. 1 and 2) conditions in other parts of the range may vary widely. For example, the record low temperature for this station is 6° below zero, while at White Sands National Monument it is 25° below zero, and both of these records occurred on the same date--11 January 1962. Also, severe local thunderstorms may produce torrential rainfall in a comparatively small area with little or no rainfall a few miles distant. On 4 July 1961, 1.80" of rain fell in 48 minutes at "A" Station and the 24-hour total was 2.31", while at Orogrande, 24 miles east, the total rainfall for that day was only 0.02".

The greatest 24-hour rainfall of record on the Range occurred at White Sands National Monument on 21-22 September 1941, with a fall of 5.30". Of this amount, 4.28" fell in five hours--1430-1930 MST, 21 September. This, however, was a general storm, with rainfall totals at a few other stations on or near WSMR as follows: Alamogordo, 2.60"; El Paso Airport, 3.42"; Las Cruces, 4.61"; Orogrande, 3.27"; Tularosa, 4.75". The greatest 24-hour rainfall of record at "A" Station is 4.25", which fell on 23-24 August 1959. (See Table III.)

DISCUSSION

COLD SEASON (NOVEMBER-APRIL) WEATHER

December and January are the coldest months, with nearly identical mean temperatures. (See Table I.) February averages nearly 4° warmer, but it has the same low temperature record as December. The record low temperature, (-6°) occurred on 11 January 1962, when absolute record minima were established at most stations in southern New Mexico, during an extremely severe cold spell.

The average number of days with minimum temperatures at or below freezing is 38, and with 20° or less is only three. The earliest date of the last freezing temperature in spring occurred on 14 February 1950 (see Table V), while the earliest date of a 90° temperature was 14 April 1963. The record high temperature for the cold season, 94°, was recorded on 22 April 1965. Average date of the first fall freeze is 20 November.

Only 30% of the annual rainfall occurs during the cold season, and April (the second driest month) and November (the third driest) altogether account for only 7% of the annual total. This 6-month period averages only three days with the occurrence of thunderstorms out of the annual total of 43 days. The three coldest months receive 77% of the annual snowfall total of 6.0 inches.

April, the windiest month of the year, has an average hourly wind speed of 8.7 knots. Visibility is reduced to 6 miles or less (by fog, snow, blowing dust, etc.) on an average of 21 days during this season. Five of these days occur in March and four in April, while the total for the year is 36 days. (See Table IV).

WARM SEASON (MAY-OCTOBER) WEATHER

Although June and July are the warmest months, August is only slightly cooler (see Table II). The average number of days with a temperature of 100° or more is only 7, three each in June and July, and one in August. Only in occasional years do such high temperatures occur in May, and none have been recorded in September at this station. The greatest number of successive days with 100° or more is 8, from 26 June to 3 July 1960. However, 18 successive days with 99° or more occurred from 24 June to 11 July 1951. It was during these two periods that the absolute record high temperature of 106° occurred four times.

Maximum temperatures at Desert Station (near Army Block House) average about 1.2° higher than at "A" Station during the summer months, so that 100° temperatures can be expected in that area on an average of about 12 days each summer. At Orogrande, about 24 miles east of WSMR Headquarters, summer temperatures average about four degrees higher than at this station, and the absolute record high temperature for Orogrande, 116°, equals the record high temperature for the entire state of New Mexico.

The lowest maximum temperature of occurrence for any year was in 1959, when 99° was recorded only twice. The average number of days with maximum temperature of 90° or more is 84, sixty-seven of which occur during the three warmest months. The earliest date of 95° reading was 11 May 1962, and the average date is 2 June. The latest occurrence of 95° in late summer was on 27 September 1951, and the average date is 4 September, while there are thirty-six days per year when a maximum of 95° or more is recorded. October mean temperatures are within one degree of the annual mean.

May (the driest month) and June are, on the average, quite dry. Collectively, they contribute only 11% of the total annual rainfall. July, August and September, the wettest months of the year, account for 50% of the average annual rainfall of 10.30", and for 66% of the thunderstorms. Seventy percent of the annual rainfall occurs during the warm season and all but three of the 43 days with thunderstorms. The greatest monthly rainfall of record at this station, 7.42", occurred in June, 1966. The driest year of record was 1956, with a rainfall total of only 3.92", (see Table III.).

August, with an average hourly wind speed of 4.7 knots is the least windy month of the year, while the annual average is 6.1 knots. The prevailing wind direction for 11 of the 12 months is west, but for July it is southeast. Visibility of 6 miles or less occurs on 15 days during the warm season.

COLDEST PERIODS	TEMPERATURES (°F)				
	MEAN MAX	MEAN MIN	MEAN	HIGH- EST	LOW- EST
MONTH OF DECEMBER	56.0	34.7	45.4	77	8
MONTH OF JANUARY	56.3	34.6	45.5	73	-6
MONTH OF FEBRUARY	60.0	37.6	48.8	81	8
COLDEST 30 DAYS, 12/20 to 1/18	54.3	32.6	43.5	73	-6
COLDEST 15 DAYS, 1/3 to 1/17	54.1	32.2	43.2	73	-6
COLDEST 7 DAYS, 1/8 to 1/14	53.7	32.0	42.9	73	-6

TABLE I. TEMPERATURES DURING COLDEST MONTHS, "A" STATION

WARMEST PERIODS	TEMPERATURES (°F)				
	MEAN MAX	MEAN MIN	MEAN	HIGH- EST	LOW- EST
MONTH OF JUNE	92.8	69.0	80.9	106	50
MONTH OF JULY	93.3	70.5	81.9	106	59
MONTH OF AUGUST	91.1	68.8	80.0	103	35
WARMEST 30 DAYS, 6/18 to 7/17	94.4	71.0	82.7	106	59
WARMEST 15 DAYS, 6/19 to 7/3	95.2	71.5	83.4	106	59
WARMEST 7 DAYS, 6/22 to 6/28	95.5	72.2	83.9	106	62

TABLE II. TEMPERATURES DURING WARMEST MONTHS, "A" STATION

The following tabulations show the precipitation extremes (greatest and least) of record for White Sands Missile Range and vicinity:

PRECIPITATION EXTREMES, "A" STATION, WHITE SANDS MISSILE RANGE

0.38 inch	8 minutes	1412-1420MST, 27 July 1965
1.80 inch	48 minutes	1530-1618MST, 4 July 1961
2.92 inches	3½ hours	0050-0320MST, 24 August, 1959
3.17 inches	6 hours	2245-0445MST, 23-24 August, 1959
3.72 inches	12 hours	1645-0445MST, 23-24 August, 1959
4.25 inches	24 hours	2210-1925MST, 23-24 August, 1959
Greatest annual rainfall:		20.02 inches in 1958.
Least annual rainfall:		3.92 inches in 1956.
Longest dry spell		
(no measurable rainfall):		123 days, 2/10-6/11, 1956.
Second longest dry spell:		80 days, 10/8-12/26, 1954.
Greatest seasonal snowfall:		24.5 inches, 1967-1968.
Greatest annual snowfall:		18.5 inches, 1960.

HEAVIEST RAINFALL OF RECORD, WHITE SANDS NATIONAL MONUMENT [3]

0.95 inch	30 minutes	4.28 inches	5 hours
1.50 inch	1 hour	4.40 inches	6 hours
2.50 inches	2 hours	5.17 inches	12 hours
3.50 inches	3 hours	5.30 inches	24 hours, 9/21-22/41

PRECIPITATION EXTREMES, NEW MEXICO STATE UNIVERSITY, LAS CRUCES [8]

Extremely heavy rainfall occurred at the University station from 11:05pm 29 Aug. to 7:00am 30 Aug., 1935, measured as follows:

0.64 inch	5 minutes	2.77 inches	60 minutes
1.06 inch	10 minutes	4.15 inches	2 hours
1.50 inch	15 minutes	4.77 inches	3 hours
1.86 inch	20 minutes	5.91 inches	4 hours
2.48 inches	30 minutes	6.46 inches	7 hours 55 minutes
Greatest 24-hour rainfall:		6.49 inches,	29-30 August, 1935
Greatest monthly rainfall:		7.53 inches,	September, 1941

WETTEST AND DRIEST YEARS, NEW MEXICO STATE UNIVERSITY

15.05 inches in 1881, La Mesilla	13.26 inches in 1931, NMSU
17.09 inches in 1905, NMSU	19.60 inches in 1941, NMSU
14.35 inches in 1926, NMSU	14.01 inches in 1958, NMSU
3.61 inches in 1860, Ft. Fillmore	4.02 inches in 1910, NMSU
3.45 inches in 1873, Ft. Selden	3.81 inches in 1953, NMSU
4.47 inches in 1892, NMSU	3.62 inches in 1964, NMSU

HEAVIEST SNOWFALL OF RECORD, NEW MEXICO STATE UNIVERSITY

	Greatest Monthly	Greatest 24-hours
January	4.7 inches in 1947	4.7 inches in 1947
February	10.4 inches in 1956	9.0 inches in 1956
March	2.7 inches in 1944	2.7 inches in 1944
November	5.0 inches in 1957	5.0 inches in 1957
December	10.3 inches in 1931	9.0 inches in 1931

TABLE III. PRECIPITATION EXTREMES, WSMR AND VICINITY



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FIGURE 1. WEATHER STATIONS, WHITE SANDS MISSILE RANGE AND VICINITY

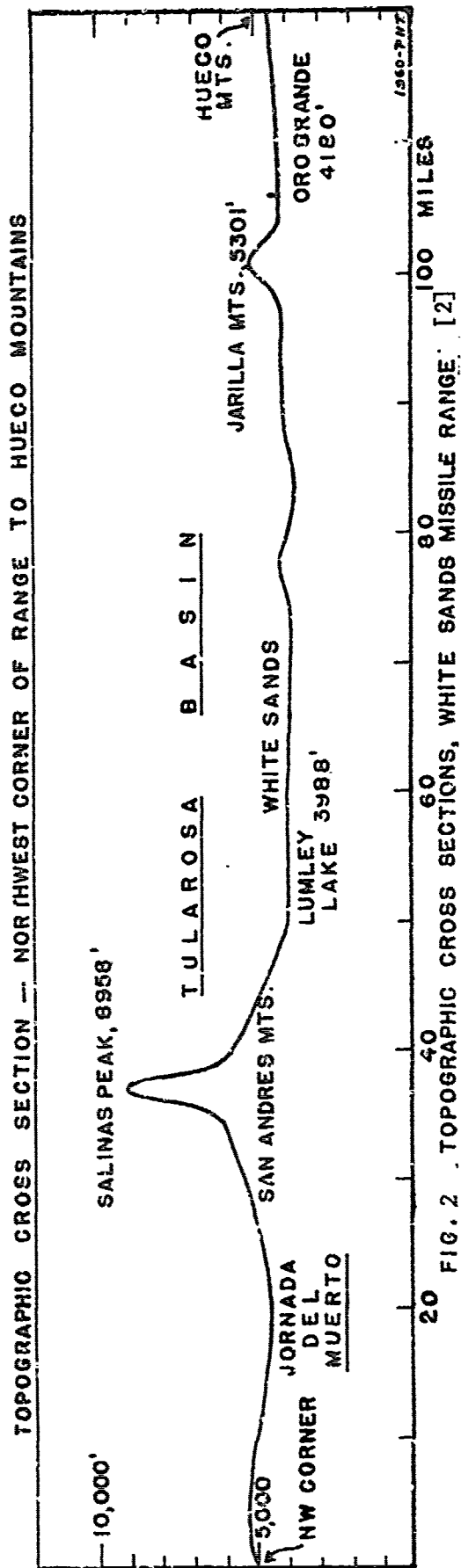
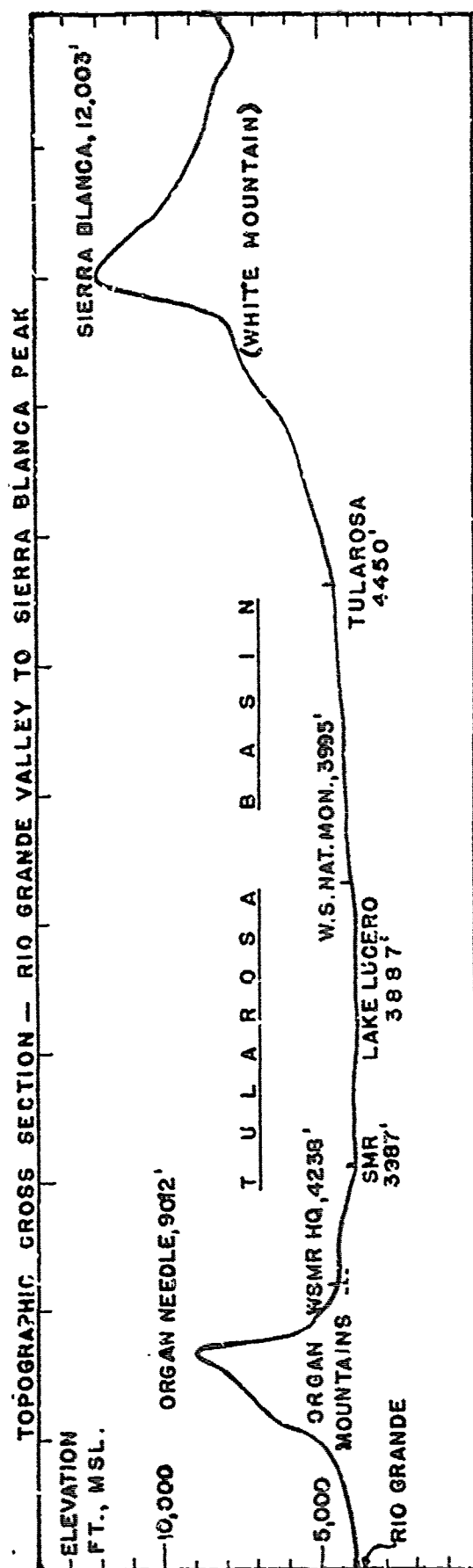


FIG. 2 TOPOGRAPHIC CROSS SECTIONS, WHITE SANDS MISSILE RANGE. [2]

"A" STATION, WHITE SANDS MISSILE RANGE.

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

J A N U A R Y

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

J A N U A R Y

AVG. HIGH HIGHEST YEAR	54 62 1956	AVG. HIGH HIGHEST YEAR	54 67 1971	AVG. HIGH HIGHEST YEAR	54 61 1965	AVG. HIGH HIGHEST YEAR	54 67 1965	AVG. HIGH HIGHEST YEAR	54 69 1965	AVG. HIGH HIGHEST YEAR	54 71 1969
AVG. LOW LOWEST YEAR	33 21 1970	AVG. LOW LOWEST YEAR	33 21 1970	AVG. LOW LOWEST YEAR	33 21 1970	AVG. LOW LOWEST YEAR	33 21 1970	AVG. LOW LOWEST YEAR	32 11 1971	AVG. LOW LOWEST YEAR	32 9 1971
AVG. HIGH HIGHEST YEAR	54 70 1969	AVG. HIGH HIGHEST YEAR	54 68 1953	AVG. HIGH HIGHEST YEAR	54 69 1953	AVG. HIGH HIGHEST YEAR	54 69 1953	AVG. HIGH HIGHEST YEAR	54 72 1953	AVG. HIGH HIGHEST YEAR	54 71 1953
AVG. LOW LOWEST YEAR	32 18 1967	AVG. LOW LOWEST YEAR	32 14 1967	AVG. LOW LOWEST YEAR	32 -2 1962	AVG. LOW LOWEST YEAR	32 -6 1962	AVG. LOW LOWEST YEAR	32 4 1962	AVG. LOW LOWEST YEAR	32 8 1963
AVG. HIGH HIGHEST YEAR	55 67 1957	AVG. HIGH HIGHEST YEAR	55 69 1967	AVG. HIGH HIGHEST YEAR	56 71 1971	AVG. HIGH HIGHEST YEAR	56 74 1971	AVG. HIGH HIGHEST YEAR	56 70 1959	AVG. HIGH HIGHEST YEAR	57 73 1971
AVG. LOW LOWEST YEAR	33 19 1964	AVG. LOW LOWEST YEAR	34 21 1964	AVG. LOW LOWEST YEAR	34 22 1964	AVG. LOW LOWEST YEAR	35 23 1960	AVG. LOW LOWEST YEAR	35 22 1963	AVG. LOW LOWEST YEAR	36 16 1963
AVG. HIGH HIGHEST YEAR	57 73 1967	AVG. HIGH HIGHEST YEAR	58 73 1950	AVG. HIGH HIGHEST YEAR	58 76 1970	AVG. HIGH HIGHEST YEAR	59 72 1952	AVG. HIGH HIGHEST YEAR	59 73 1953	AVG. HIGH HIGHEST YEAR	60 71 1970
AVG. LOW LOWEST YEAR	37 13 1966	AVG. LOW LOWEST YEAR	37 16 1966	AVG. LOW LOWEST YEAR	37 18 1963	AVG. LOW LOWEST YEAR	38 22 1963	AVG. LOW LOWEST YEAR	38 22 1966	AVG. LOW LOWEST YEAR	38 21 1966
AVG. HIGH HIGHEST YEAR	60 73 1967	AVG. HIGH HIGHEST YEAR	60 73 1967	AVG. HIGH HIGHEST YEAR	60 73 1971	AVG. HIGH HIGHEST YEAR	60 73 1971	AVG. HIGH HIGHEST YEAR	56.5 34.6 76 -6 45	AVG. HIGH HIGHEST YEAR	56.5 34.6 76 -6 45
AVG. LOW LOWEST YEAR	38 28 1970	AVG. LOW LOWEST YEAR	38 20 1951	AVG. LOW LOWEST YEAR	38 16 1951	AVG. LOW LOWEST YEAR	38 16 1951	AVG. LOW LOWEST YEAR	38 22 1966	AVG. LOW LOWEST YEAR	38 21 1966
* ABSOLUTE RECORD LOW TEMPERATURE AT STATION. GREATEST JANUARY SNOWFALL: 5.5 in. 1968											

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

AVG. HIGH HIGHEST YEAR	59 79 1963	AVG. HIGH HIGHEST YEAR	59 71 1963	AVG. HIGH HIGHEST YEAR	59 72 1953	AVG. HIGH HIGHEST YEAR	59 76 1963	AVG. HIGH HIGHEST YEAR	59 77 1963	AVG. HIGH HIGHEST YEAR	60 76 1963	AVG. HIGH HIGHEST YEAR	60 74 1963
AVG. LOW LOWEST YEAR	37 8 1951	AVG. LOW LOWEST YEAR	37 9 1951	AVG. LOW LOWEST YEAR	37 13 1956	AVG. LOW LOWEST YEAR	37 14 1956	AVG. LOW LOWEST YEAR	37 24 1955	AVG. LOW LOWEST YEAR	37 22 1955	AVG. LOW LOWEST YEAR	37 22 1964
AVG. HIGH HIGHEST YEAR	60 78 1957	AVG. HIGH HIGHEST YEAR	60 75 1962	AVG. HIGH HIGHEST YEAR	60 76 1962	AVG. HIGH HIGHEST YEAR	60 81 1957	AVG. HIGH HIGHEST YEAR	60 78 1962	AVG. HIGH HIGHEST YEAR	60 77 1957	AVG. HIGH HIGHEST YEAR	60 80 1957
AVG. LOW LOWEST YEAR	37 25 1971	AVG. LOW LOWEST YEAR	37 18 1967	AVG. LOW LOWEST YEAR	37 22 1956	AVG. LOW LOWEST YEAR	37 17 1963	AVG. LOW LOWEST YEAR	37 16 1963	AVG. LOW LOWEST YEAR	38 18 1963	AVG. LOW LOWEST YEAR	38 21 1965
AVG. HIGH HIGHEST YEAR	60 72 1971	AVG. HIGH HIGHEST YEAR	59 72 1971	AVG. HIGH HIGHEST YEAR	59 75 1970	AVG. HIGH HIGHEST YEAR	59 74 1958	AVG. HIGH HIGHEST YEAR	59 73 1958	AVG. HIGH HIGHEST YEAR	59 73 1968	AVG. HIGH HIGHEST YEAR	59 69 1968
AVG. LOW LOWEST YEAR	38 20 1951	AVG. LOW LOWEST YEAR	38 25 1966	AVG. LOW LOWEST YEAR	37 24 1966	AVG. LOW LOWEST YEAR	37 26 1960	AVG. LOW LOWEST YEAR	37 22 1955	AVG. LOW LOWEST YEAR	37 21 1955	AVG. LOW LOWEST YEAR	38 20 1964
AVG. HIGH HIGHEST YEAR	60 75 1954	AVG. HIGH HIGHEST YEAR	60 73 1956	AVG. HIGH HIGHEST YEAR	61 73 1968	AVG. HIGH HIGHEST YEAR	61 75 1954	AVG. HIGH HIGHEST YEAR	62 72 1961	AVG. HIGH HIGHEST YEAR	62 73 1968	AVG. HIGH HIGHEST YEAR	62 72 1950
AVG. LOW LOWEST YEAR	38 23 1955	AVG. LOW LOWEST YEAR	38 24 1965	AVG. LOW LOWEST YEAR	38 16 1960	AVG. LOW LOWEST YEAR	39 14 1960	AVG. LOW LOWEST YEAR	39 29 1952	AVG. LOW LOWEST YEAR	39 33 1964	AVG. LOW LOWEST YEAR	40 25 1964
AVG. HIGH HIGHEST YEAR	62 67 1956	AVG. MAXIMUM TEMPERATURE	60.0°	AVG. MAXIMUM TEMPERATURE	60.0°	AVG. MONTHLY WIND SPEED	6.5 K	AVG. MONTHLY WIND SPEED	6.5 K	ANNUAL WEST	6.1 K	ANNUAL WEST	6.1 K
AVG. LOW LOWEST YEAR	29 40 1956	RECORD MAXIMUM TEMPERATURE	37.6°	RECORD MAXIMUM TEMPERATURE	37.6°	PREVAILING WIND DIRECTION	WEST	PREVAILING WIND DIRECTION	WEST	ANNUAL IN.	10.30 IN.	ANNUAL IN.	10.30 IN.
AVG. LOW LOWEST YEAR	29 40 1956	AVG. RELATIVE HUMIDITY	8%	AVG. RELATIVE HUMIDITY	8%	AVG. MONTHLY SNOWFALL	1.4 IN.	AVG. MONTHLY SNOWFALL	1.4 IN.	ANNUAL IN.	5.7 IN.	ANNUAL IN.	5.7 IN.
AVG. LOW LOWEST YEAR	29 29 1956	GREATEST MONTHLY RAINFALL	1.44 IN.	GREATEST MONTHLY RAINFALL	1.44 IN.	AVG. MONTHLY CLOUDINESS	37%	AVG. MONTHLY CLOUDINESS	37%	ANNUAL %	36%	ANNUAL %	36%
** 14th: EARLIEST DATE OF LAST FREEZING TEMPERATURE IN SPRING, 1950													

***	14th:	EARLIEST DATE OF LAST FREEZING TEMPERATURE IN SPRING. 1950
1	1950	1950
2	1950	1950
3	1950	1950
4	1950	1950
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6	1950	1950
7	1950	1950
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86	1950	1950
87	1950	1950
88	1950	1950
89	1950	1950
90	1950	1950
91	1950	1950
92	1950	1950
93	1950	1950
94	1950	1950
95	1950	1950
96	1950	1950
97	1950	1950
98	1950	1950
99	1950	1950
100	1950	1950

MAP C-2

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

A P R I L

A P R I L

AVG. HIGH HIGHEST YEAR	73 82 1969	AVG. HIGH HIGHEST YEAR	73 83 1966	AVG. HIGH HIGHEST YEAR	73 86 1954	AVG. HIGH HIGHEST YEAR	73 87 1967	AVG. HIGH HIGHEST YEAR	73 86 1959	AVG. HIGH HIGHEST YEAR	74 85 1954	AVG. HIGH HIGHEST YEAR	74 85 1954	AVG. HIGH HIGHEST YEAR	74 86 1963
AVG. LOW LOWEST YEAR	49 40 1955	AVG. LOW LOWEST YEAR	50 35 1970	AVG. LOW LOWEST YEAR	50 35 1960	AVG. LOW LOWEST YEAR	50 37 1964	AVG. LOW LOWEST YEAR	50 34 1970	AVG. LOW LOWEST YEAR	50 36 1966	AVG. LOW LOWEST YEAR	50 36 1966	AVG. LOW LOWEST YEAR	50 39 1971
AVG. HIGH HIGHEST YEAR	74 86 1963	AVG. HIGH HIGHEST YEAR	74 84 1954	AVG. HIGH HIGHEST YEAR	74 86 1960	AVG. HIGH HIGHEST YEAR	74 89 1971	AVG. HIGH HIGHEST YEAR	75 85 1971	AVG. HIGH HIGHEST YEAR	75 85 1962	AVG. HIGH HIGHEST YEAR	75 85 1962	AVG. HIGH HIGHEST YEAR	75 90 1963
AVG. LOW LOWEST YEAR	50 41 1964	AVG. LOW LOWEST YEAR	50 41 1964	AVG. LOW LOWEST YEAR	50 41 1956	AVG. LOW LOWEST YEAR	51 34 1951	AVG. LOW LOWEST YEAR	51 37 1953	AVG. LOW LOWEST YEAR	52 36 1959	AVG. LOW LOWEST YEAR	52 36 1959	AVG. LOW LOWEST YEAR	52 38 1958
AVG. HIGH HIGHEST YEAR	76 89 1962	AVG. HIGH HIGHEST YEAR	76 91 1962	AVG. HIGH HIGHEST YEAR	76 89 1962	AVG. HIGH HIGHEST YEAR	77 89 1954	AVG. HIGH HIGHEST YEAR	77 88 1962	AVG. HIGH HIGHEST YEAR	77 88 1965	AVG. HIGH HIGHEST YEAR	77 88 1965	AVG. HIGH HIGHEST YEAR	77 92 1965
AVG. LOW LOWEST YEAR	53 42 1956	AVG. LOW LOWEST YEAR	53 43 1961	AVG. LOW LOWEST YEAR	54 43 1969	AVG. LOW LOWEST YEAR	54 42 1971	AVG. LOW LOWEST YEAR	54 39 1971	AVG. LOW LOWEST YEAR	55 42 1968	AVG. LOW LOWEST YEAR	55 42 1968	AVG. LOW LOWEST YEAR	55 45 1959
AVG. HIGH HIGHEST YEAR	77 94 1965	AVG. HIGH HIGHEST YEAR	77 89 1965	AVG. HIGH HIGHEST YEAR	78 88 1959	AVG. HIGH HIGHEST YEAR	78 83 1956	AVG. HIGH HIGHEST YEAR	78 89 1950	AVG. HIGH HIGHEST YEAR	78 85 1953	AVG. HIGH HIGHEST YEAR	78 85 1953	AVG. HIGH HIGHEST YEAR	78 84 1961
AVG. LOW LOWEST YEAR	55 46 1952	AVG. LOW LOWEST YEAR	55 41 1968	AVG. LOW LOWEST YEAR	55 36 1968	AVG. LOW LOWEST YEAR	55 45 1961	AVG. LOW LOWEST YEAR	55 43 1964	AVG. LOW LOWEST YEAR	55 43 1969	AVG. LOW LOWEST YEAR	55 43 1969	AVG. LOW LOWEST YEAR	55 46 1969
AVG. HIGH HIGHEST YEAR	78 87 1961	AVG. HIGH HIGHEST YEAR	79 89 1961	AVG. HIGH HIGHEST YEAR	79 89 1961	AVG. HIGH HIGHEST YEAR	79 89 1961	AVG. HIGH HIGHEST YEAR	79 89 1961	AVG. HIGH HIGHEST YEAR	79 89 1961	AVG. HIGH HIGHEST YEAR	79 89 1961	AVG. HIGH HIGHEST YEAR	79 89 1961
AVG. LOW LOWEST YEAR	55 45 1951	AVG. LOW LOWEST YEAR	55 40 1970	AVG. LOW LOWEST YEAR	55 40 1970	AVG. LOW LOWEST YEAR	55 40 1970	AVG. LOW LOWEST YEAR	55 40 1970	AVG. LOW LOWEST YEAR	55 40 1970	AVG. LOW LOWEST YEAR	55 40 1970	AVG. LOW LOWEST YEAR	55 40 1970
** EARLIEST DATE TEMPERATURE REACHED 90°.															

"A" STATION, WHITE SANDS MISSILE RANGE
DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

M A Y

M A Y

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4

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AVG. HIGH HIGHEST YEAR 1961	79 90	AVG. HIGH HIGHEST YEAR 1971	79 87	AVG. HIGH HIGHEST YEAR 1956	30 89	AVG. HIGH HIGHEST YEAR 1962	80 91	AVG. HIGH HIGHEST YEAR 1950	81 92	AVG. HIGH HIGHEST YEAR 1962	81 92	AVG. HIGH HIGHEST YEAR 1969	84 93
AVG. LOW LOWEST YEAR 1951	56 41	AVG. LOW LOWEST YEAR 1967	56 39	AVG. LOW LOWEST YEAR 1970	56 41	AVG. LOW LOWEST YEAR 1953	57 39	AVG. LOW LOWEST YEAR 1950	57 44	AVG. LOW LOWEST YEAR 1969	57 43	AVG. LOW LOWEST YEAR 1969	58 38
AVG. HIGH HIGHEST YEAR 1956	82 93	AVG. HIGH HIGHEST YEAR 1962	82 93	AVG. HIGH HIGHEST YEAR 1962	83 94	AVG. HIGH HIGHEST YEAR 1962	83 95	AVG. HIGH HIGHEST YEAR 1962	83 93	AVG. HIGH HIGHEST YEAR 1960	84 93	AVG. HIGH HIGHEST YEAR 1963	84 95
AVG. LOW LOWEST YEAR 1968	58 47	AVG. LOW LOWEST YEAR 1969	59 46	AVG. LOW LOWEST YEAR 1953	59 45	AVG. LOW LOWEST YEAR 1953	59 50	AVG. LOW LOWEST YEAR 1971	60 49	AVG. LOW LOWEST YEAR 1953	60 45	AVG. LOW LOWEST YEAR 1953	60 47
AVG. HIGH HIGHEST YEAR 1964	84 94	AVG. HIGH HIGHEST YEAR 1964	84 93	AVG. HIGH HIGHEST YEAR 1970	85 93	AVG. HIGH HIGHEST YEAR 1970	85 97	AVG. HIGH HIGHEST YEAR 1952	85 96	AVG. HIGH HIGHEST YEAR 1969	86 98	AVG. HIGH HIGHEST YEAR 1970	86 94
AVG. LOW LOWEST YEAR 1967	60 47	AVG. LOW LOWEST YEAR 1967	61 49	AVG. LOW LOWEST YEAR 1965	61 52	AVG. LOW LOWEST YEAR 1968	61 48	AVG. LOW LOWEST YEAR 1952	62 47	AVG. LOW LOWEST YEAR 1960	62 50	AVG. LOW LOWEST YEAR 1967	62 50
AVG. HIGH HIGHEST YEAR 1965	86 93	AVG. HIGH HIGHEST YEAR 1953	87 94	AVG. HIGH HIGHEST YEAR 1964	87 99	AVG. HIGH HIGHEST YEAR 1951	87 95	AVG. HIGH HIGHEST YEAR 1951	88 100	AVG. HIGH HIGHEST YEAR 1951	88 102	AVG. HIGH HIGHEST YEAR 1951	88 103
AVG. LOW LOWEST YEAR 1962	62 55	AVG. LOW LOWEST YEAR 1963	63 57	AVG. LOW LOWEST YEAR 1971	63 55	AVG. LOW LOWEST YEAR 1954	63 54	AVG. LOW LOWEST YEAR 1967	64 53	AVG. LOW LOWEST YEAR 1950	64 50	AVG. LOW LOWEST YEAR 1952	65 55
AVG. HIGH HIGHEST YEAR 1951	89 98	AVG. HIGH HIGHEST YEAR 1951	89 99	AVG. HIGH HIGHEST YEAR 1963	89 97	AVG. HIGH HIGHEST YEAR 1964	89 97	AVG. HIGH HIGHEST YEAR 1967	84.3° 60.5°	AVG. HIGH HIGHEST YEAR 1959	84.3° 60.5°	AVG. HIGH HIGHEST YEAR 1959	84.3° 60.5°
AVG. LOW LOWEST YEAR 1962	65 57	AVG. LOW LOWEST YEAR 1962	65 57	AVG. LOW LOWEST YEAR 1964	66 51	AVG. LOW LOWEST YEAR 1964	66 51	AVG. LOW LOWEST YEAR 1964	66 51	AVG. LOW LOWEST YEAR 1959	66 51	AVG. LOW LOWEST YEAR 1959	66 51
PREVAILING WIND DIR.	WEST	PREVAILING WIND DIR.	WEST	PREVAILING WIND DIR.	WEST	PREVAILING WIND DIR.	WEST	PREVAILING WIND DIR.	WEST	PREVAILING WIND DIR.	WEST	PREVAILING WIND DIR.	WEST
AVERAGE RAINFALL	0.23 IN.	AVERAGE RAINFALL	0.23 IN.	AVERAGE RAINFALL	0.23 IN.	AVERAGE RAINFALL	0.23 IN.	AVERAGE RAINFALL	0.23 IN.	AVERAGE RAINFALL	0.23 IN.	AVERAGE RAINFALL	0.23 IN.
AVERAGE SNOWFALL	0.0 IN.	AVERAGE SNOWFALL	0.0 IN.	AVERAGE SNOWFALL	0.0 IN.	AVERAGE SNOWFALL	0.0 IN.	AVERAGE SNOWFALL	0.0 IN.	AVERAGE SNOWFALL	0.0 IN.	AVERAGE SNOWFALL	0.0 IN.
AVERAGE CLOUDINESS	30 %	AVERAGE CLOUDINESS	30 %	AVERAGE CLOUDINESS	30 %	AVERAGE CLOUDINESS	30 %	AVERAGE CLOUDINESS	30 %	AVERAGE CLOUDINESS	30 %	AVERAGE CLOUDINESS	30 %

** EARLIEST DATE OF 100° TEMPERATURE AT STATION

"A" STATION, WHITE SANDS MISSILE RANGE
DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

J U N E

J U N E

AVG. HIGH 96 HIGHEST YEAR 1953	AVG. HIGH 89 HIGHEST YEAR 1956	AVG. HIGH 90 HIGHEST YEAR 1956	AVG. HIGH 90 HIGHEST YEAR 1956	AVG. HIGH 90 HIGHEST YEAR 1956	AVG. HIGH 90 HIGHEST YEAR 1956
AVG. LOW 50 LOWEST YEAR 1964	AVG. LOW 65 LOWEST YEAR 1969	AVG. LOW 66 LOWEST YEAR 1962	AVG. LOW 66 LOWEST YEAR 1970	AVG. LOW 66 LOWEST YEAR 1959	AVG. LOW 67 LOWEST YEAR 1960
AVG. HIGH 91 HIGHEST YEAR 1955	AVG. HIGH 91 HIGHEST YEAR 1953	AVG. HIGH 91 HIGHEST YEAR 1962	AVG. HIGH 92 HIGHEST YEAR 1968	AVG. HIGH 92 HIGHEST YEAR 1956	AVG. HIGH 93 HIGHEST YEAR 1956
AVG. LOW 67 LOWEST YEAR 1970	AVG. LOW 68 LOWEST YEAR 1965	AVG. LOW 68 LOWEST YEAR 1965	AVG. LOW 68 LOWEST YEAR 1960	AVG. LOW 68 LOWEST YEAR 1955	AVG. LOW 69 LOWEST YEAR 1951
AVG. HIGH 93 HIGHEST YEAR 1950	AVG. HIGH 93 HIGHEST YEAR 1960	AVG. HIGH 94 HIGHEST YEAR 1960	AVG. HIGH 94 HIGHEST YEAR 1970	AVG. HIGH 95 HIGHEST YEAR 1960	AVG. HIGH 95 HIGHEST YEAR 1968
AVG. LOW 69 LOWEST YEAR 1969	AVG. LOW 69 LOWEST YEAR 1969	AVG. LOW 70 LOWEST YEAR 1968	AVG. LOW 70 LOWEST YEAR 1955	AVG. LOW 70 LOWEST YEAR 1965	AVG. LOW 71 LOWEST YEAR 1966
AVG. HIGH 95 HIGHEST YEAR 1960	AVG. HIGH 96 HIGHEST YEAR 1968	AVG. HIGH 96 HIGHEST YEAR 1961	AVG. HIGH 96 HIGHEST YEAR 1951	AVG. HIGH 96 HIGHEST YEAR 1957	AVG. HIGH 96 HIGHEST YEAR 1951
AVG. LOW 71 LOWEST YEAR 1965	AVG. LOW 72 LOWEST YEAR 1970	AVG. LOW 72 LOWEST YEAR 1965	AVG. LOW 72 LOWEST YEAR 1964	AVG. LOW 72 LOWEST YEAR 1967	AVG. LOW 72 LOWEST YEAR 1966
AVG. HIGH 95 HIGHEST YEAR 1951	AVG. HIGH 95 HIGHEST YEAR 1969	AVG. HIGH 95 HIGHEST YEAR 1969	AVG. HIGH 95 HIGHEST YEAR 1969	AVG. HIGH 95 HIGHEST YEAR 1966	AVG. HIGH 95 HIGHEST YEAR 1966
AVG. LOW 71 LOWEST YEAR 1961	AVG. LOW 71 LOWEST YEAR 1966	AVG. LOW 71 LOWEST YEAR 1966	AVG. LOW 71 LOWEST YEAR 1966	AVG. LOW 71 LOWEST YEAR 1966	AVG. LOW 71 LOWEST YEAR 1966
AVG. HIGH 90 HIGHEST YEAR 1956	AVG. HIGH 90 HIGHEST YEAR 1956	AVG. HIGH 90 HIGHEST YEAR 1956	AVG. HIGH 90 HIGHEST YEAR 1956	AVG. HIGH 90 HIGHEST YEAR 1956	AVG. HIGH 90 HIGHEST YEAR 1956
AVG. LOW 67 LOWEST YEAR 1960	AVG. LOW 67 LOWEST YEAR 1960	AVG. LOW 67 LOWEST YEAR 1960	AVG. LOW 67 LOWEST YEAR 1960	AVG. LOW 67 LOWEST YEAR 1960	AVG. LOW 67 LOWEST YEAR 1960

Ø ABSOLUTE MAXIMUM TEMPERATURE AT STATION.

"A" STATION, WHITE SANDS MISSILE RANGE
DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

JULY

JULY

AVG. HIGH HIGHEST YEAR	94 106 1960	AVG. HIGH HIGHEST YEAR	94 105 1960	AVG. HIGH HIGHEST YEAR	94 103 1966	AVG. HIGH HIGHEST YEAR	94 100 1971	AVG. HIGH HIGHEST YEAR	93 102 1968	AVG. HIGH HIGHEST YEAR	93 101 1963	AVG. HIGH HIGHEST YEAR	93 102 1951	AVG. HIGH HIGHEST YEAR	93 104 1958
1	71 62 1970	2	71 63 1971	3	71 64 1971	4	71 62 1968	5	71 60 1968	6	71 62 1968	7	71 64 1960	8	71 64 1960
AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR
AVG. HIGH HIGHEST YEAR	93 104 1951	9	71 59 1952	10	71 63 1951	11	71 65 1962	12	71 62 1970	13	71 63 1964	14	71 64 1950	15	71 64 1950
AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR
AVG. HIGH HIGHEST YEAR	94 101 1963	16	71 65 1952	17	71 66 1969	18	70 65 1956	19	70 63 1962	20	70 63 1955	21	70 62 1955	22	70 62 1955
AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR
AVG. HIGH HIGHEST YEAR	93 102 1963	23	70 61 1955	24	70 65 1970	25	70 62 1970	26	70 62 1950	27	70 62 1962	28	70 65 1970	29	70 63 1962
AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR
AVG. HIGH HIGHEST YEAR	92 100 1960	30	92 100 1969	31	92 97 1967	32	92 97 1967	33	92 97 1967	34	92 97 1967	35	92 97 1967	36	92 97 1967
AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR	AVG. LOW LOWEST YEAR

0 ABSOLUTE RECORD MAXIMUM TEMPERATURE AT STATION: 106° ON THREE DAYS IN 1951 AND ONE DAY IN 1960.

0 ABSOLUTE RECORD MAXIMUM TEMPERATURE AT STATION: 106° ON THREE DAYS IN 1951 AND ONE DAY IN 1960.

"A" STATION, WHITE SANDS MISSILE RANGE
DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

A U G U S T

AVG. HIGH HIGHEST YEAR	92 102 1966	AVG. HIGH HIGHEST YEAR	92 101 1969	AVG. HIGH HIGHEST YEAR	92 101 1969	AVG. HIGH HIGHEST YEAR	93 100 1969	AVG. HIGH HIGHEST YEAR	93 100 1969	AVG. HIGH HIGHEST YEAR	93 100 1969	AVG. HIGH HIGHEST YEAR	94 101 1951
AVG. LOW LOWEST YEAR	70 62 1965	AVG. LOW LOWEST YEAR	70 61 1971	AVG. LOW LOWEST YEAR	70 63 1971	AVG. LOW LOWEST YEAR	70 65 1971	AVG. LOW LOWEST YEAR	70 64 1970	AVG. LOW LOWEST YEAR	70 62 1971	AVG. LOW LOWEST YEAR	70 63 1971
AVG. HIGH HIGHEST YEAR	94 101 1951	AVG. HIGH HIGHEST YEAR	94 100 1951	AVG. HIGH HIGHEST YEAR	93 100 1951	AVG. HIGH HIGHEST YEAR	93 101 1964	AVG. HIGH HIGHEST YEAR	93 98 1969	AVG. HIGH HIGHEST YEAR	92 99 1969	AVG. HIGH HIGHEST YEAR	92 100 1962
AVG. LOW LOWEST YEAR	70 59 1971	AVG. LOW LOWEST YEAR	70 61 1971	AVG. LOW LOWEST YEAR	70 63 1967	AVG. LOW LOWEST YEAR	70 61 1960	AVG. LOW LOWEST YEAR	69 59 1966	AVG. LOW LOWEST YEAR	69 64 1960	AVG. LOW LOWEST YEAR	69 65 1967
AVG. HIGH HIGHEST YEAR	92 100 1969	AVG. HIGH HIGHEST YEAR	91 100 1969	AVG. HIGH HIGHEST YEAR	91 103 1969	AVG. HIGH HIGHEST YEAR	91 99 1969	AVG. HIGH HIGHEST YEAR	90 98 1969	AVG. HIGH HIGHEST YEAR	90 98 1969	AVG. HIGH HIGHEST YEAR	90 100 1952
AVG. LOW LOWEST YEAR	69 62 1965	AVG. LOW LOWEST YEAR	69 60 1967	AVG. LOW LOWEST YEAR	69 62 1968	AVG. LOW LOWEST YEAR	69 63 1967	AVG. LOW LOWEST YEAR	69 64 1971	AVG. LOW LOWEST YEAR	68 62 1967	AVG. LOW LOWEST YEAR	63 63 1968
AVG. HIGH HIGHEST YEAR	90 97 1950	AVG. HIGH HIGHEST YEAR	90 96 1969	AVG. HIGH HIGHEST YEAR	90 97 1950	AVG. HIGH HIGHEST YEAR	90 97 1964	AVG. HIGH HIGHEST YEAR	90 96 1960	AVG. HIGH HIGHEST YEAR	89 98 1965	AVG. HIGH HIGHEST YEAR	89 90 1962
AVG. LOW LOWEST YEAR	68 63 1967	AVG. LOW LOWEST YEAR	68 62 1966	AVG. LOW LOWEST YEAR	68 62 1954	AVG. LOW LOWEST YEAR	68 59 1966	AVG. LOW LOWEST YEAR	68 55 1965	AVG. LOW LOWEST YEAR	68 63 1970	AVG. LOW LOWEST YEAR	68 63 1952
AVG. HIGH HIGHEST YEAR	89 98 1962	AVG. HIGH HIGHEST YEAR	89 98 1962	AVG. HIGH HIGHEST YEAR	89 98 1950	AVG. HIGH HIGHEST YEAR	89 98 1962	AVG. HIGH HIGHEST YEAR	91.1 68.8 103	AVG. HIGH HIGHEST YEAR	91.1 68.8 103	AVG. HIGH HIGHEST YEAR	91.1 68.8 103
AVG. LOW LOWEST YEAR	68 63 1970	AVG. LOW LOWEST YEAR	68 61 1967	AVG. LOW LOWEST YEAR	68 58 1967	AVG. LOW LOWEST YEAR	68 58 1967	AVG. LOW LOWEST YEAR	68 58 1967	AVG. LOW LOWEST YEAR	68 58 1967	AVG. LOW LOWEST YEAR	68 58 1967

90 LATEST DATE OF 100° TEMPERATURE AT STATION, 1952.

AVG. WIND SPEED 4.7 KNOTS
PREVAILING WIND DIR. WEST
AVERAGE RAINFALL 1.77 IN.
AVERAGE SNOWFALL 0.0 IN.
AVERAGE CLOUDINESS 44 %
GREATEST MONTHLY RAINFALL 6.32 IN. YEAR 1959
GREATEST 24-HOUR RAINFALL 4.25 IN. YEAR 1959, DATE 23-24

"A" STATION. WHITE SANDS MISSILE RANGE

[illegible]

"A" STATION. WHITE SANDS MISSILE RANGE

0000 LATEST DATE OF 90° TEMPERATURE AT STATION, 1965.

"A" STATION, WHITE SANDS MISSILE RANGE
DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

[illegible]

"A" STATION, WHITE SANDS MISSILE RANGE
DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE
D E C E M B E R MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES D E C E M B E R

AVG. HIGH HIGHEST YEAR	59 73 1961	AVG. HIGH HIGHEST YEAR	59 71 1954	AVG. HIGH HIGHEST YEAR	58 77 1958	AVG. HIGH HIGHEST YEAR	58 73 1958	AVG. HIGH HIGHEST YEAR	58 68 1966	AVG. HIGH HIGHEST YEAR	57 70 1954
AVG. LOW LOWEST YEAR	38 31 1969	AVG. LOW LOWEST YEAR	37 27 1968	AVG. LOW LOWEST YEAR	37 28 1963	AVG. LOW LOWEST YEAR	36 24 1952	AVG. LOW LOWEST YEAR	36 19 1950	AVG. LOW LOWEST YEAR	36 24 1953
AVG. HIGH HIGHEST YEAR	57 70 1970	AVG. HIGH HIGHEST YEAR	56 65 1958	AVG. HIGH HIGHEST YEAR	56 72 1950	AVG. HIGH HIGHEST YEAR	56 70 1958	AVG. HIGH HIGHEST YEAR	55 69 1950	AVG. HIGH HIGHEST YEAR	55 70 1950
AVG. LOW LOWEST YEAR	36 25 1968	AVG. LOW LOWEST YEAR	35 20 1951	AVG. LOW LOWEST YEAR	35 20 1960	AVG. LOW LOWEST YEAR	35 22 1953	AVG. LOW LOWEST YEAR	34 24 1966	AVG. LOW LOWEST YEAR	34 21 1964
AVG. HIGH HIGHEST YEAR	55 67 1950	AVG. HIGH HIGHEST YEAR	55 67 1970	AVG. HIGH HIGHEST YEAR	55 65 1969	AVG. HIGH HIGHEST YEAR	55 64 1969	AVG. HIGH HIGHEST YEAR	55 69 1969	AVG. HIGH HIGHEST YEAR	55 67 1969
AVG. LOW LOWEST YEAR	34 22 1957	AVG. LOW LOWEST YEAR	33 22 1971	AVG. LOW LOWEST YEAR	33 24 1964	AVG. LOW LOWEST YEAR	33 26 1968	AVG. LOW LOWEST YEAR	33 26 1965	AVG. LOW LOWEST YEAR	33 25 1967
AVG. HIGH HIGHEST YEAR	55 69 1969	AVG. HIGH HIGHEST YEAR	54 71 1955	AVG. HIGH HIGHEST YEAR	54 70 1971	AVG. HIGH HIGHEST YEAR	54 70 1971	AVG. HIGH HIGHEST YEAR	54 69 1955	AVG. HIGH HIGHEST YEAR	54 70 1955
AVG. LOW LOWEST YEAR	33 22 1967	AVG. LOW LOWEST YEAR	33 17 1953	AVG. LOW LOWEST YEAR	33 20 1953	AVG. LOW LOWEST YEAR	33 21 1953	AVG. LOW LOWEST YEAR	33 24 1953	AVG. LOW LOWEST YEAR	33 22 1966
AVG. HIGH HIGHEST YEAR	54 60 1955	AVG. HIGH HIGHEST YEAR	54 66 1964	AVG. HIGH HIGHEST YEAR	54 66 1964	AVG. HIGH HIGHEST YEAR	54 66 1964	AVG. HIGH HIGHEST YEAR	54 66 1964	AVG. HIGH HIGHEST YEAR	54 66 1964
AVG. LOW LOWEST YEAR	33 18 1966	AVG. LOW LOWEST YEAR	33 21 1958	AVG. LOW LOWEST YEAR	33 21 1958	AVG. LOW LOWEST YEAR	33 21 1958	AVG. LOW LOWEST YEAR	33 21 1958	AVG. LOW LOWEST YEAR	33 21 1958
AVG. MAXIMUM TEMPERATURE 56.5 ° AVG. WIND SPEED 5.4 KNOTS AVG. MINIMUM TEMPERATURE 34.6 ° PREVAILING WIND DIR. WEST RECORD HIGH TEMPERATURE 77 ° AVERAGE RAINFALL 0.75 IN. RECORD LOW TEMPERATURE 8 ° AVERAGE SNOWFALL 2.24 IN. AVG. RELATIVE HUMIDITY 47 % AVERAGE CLOUDINESS 37 % GREATEST MONTHLY RAINFALL 2.43 IN., YEAR 1965 GREATEST 24-HOUR RAINFALL 1.02 IN., YEAR 1967, DATE 14-15											
** LATEST DATE OF FIRST FALL FREEZING TEMPERATURE, 1954.											

1948-1971 [6]										1950-1971										1961-63									
STATION PRESSURE (INCHES OF MERCURY)			SIX-HOURLY RELATIVE HUMIDITY						AVERAGE NUMBER OF DAYS WITH:						AVG. DEGREE DAYS, BASE 65°F		GREATEST SNOWFALL		AVG. DAILY SOLAR RADIATION										
M O N T H	MEANS	HIGH-EST	LOWEST	5 AM			11 AM			5 PM			11 PM			M	E	A	N	S	THUNDER-STORMS	PRECIPITATION			VISIBILITY		Ø	T	
				54	42	38	47	45	*	3	1	1	5	3	1							2	1	2	1	2			1
JAN	25.772	26.240	25.160	54	42	38	47	45	*	3	1	1	5	3	1	2	1	2	1	600	5.5	5.5	332						
FEB	25.726	26.170	25.180	49	36	29	40	39	*	3	2	2	5	3	2	2	2	2	454	7-8	1968	410							
MAR	25.676	26.180	25.180	41	28	22	33	31	1	4	2	1	6	4	2	1	4	321	8.6	1952	508								
APR	25.664	26.160	25.190	35	23	17	27	26	1	4	2	1	4	2	1	=	4	94	11-12	1958	624								
MAY	25.672	26.080	25.290	34	21	16	25	24	4	2	1	2	5	2	1	=	2	16	0	0	679								
JUN	25.676	25.970	25.310	38	23	18	28	27	6	4	3	2	7	3	2	=	3	0	0	0	692								
JUL	25.751	26.050	25.470	58	36	31	46	43	13	8	4	1	15	8	4	1	3	0	0	0	632								
AUG	25.765	26.010	25.510	59	37	31	45	43	10	7	4	1	14	8	4	1	1	0	0	0	584								
SEP	25.752	26.050	25.410	56	36	30	45	42	5	6	3	1	8	5	3	1	1	4	0	0	538								
OCT	25.767	26.220	25.300	51	33	29	42	39	2	2	3	1	5	3	3	1	1	75	T	T	485								
NOV	25.771	26.240	25.290	51	34	34	44	41	=	1	2	1	4	2	1	1	1	363	6.2	6.2	340								
DEC	25.771	26.285	25.200	56	42	38	49	46	=	6	4	2	6	4	2	3	*	601	14th	14.0	331								
YEAR	25.730	26.285	25.160	49	33	28	39	37	43	32	84	26	14	23	2528	14.0	14.9	513											

* LESS THAN 1/2. = LESS THAN 1/2, BUT MAKING A TOTAL OF 1.

+ VISIBILITY REDUCED TO 6 MILES OR LESS DUE TO PRECIPITATION AND FOG.

++ VISIBILITY REDUCED TO 6 MILES OR LESS DUE TO HAZE, DUST AND BLOWING DUST.

ØØ MEASUREMENTS IN LANGLEYS, MADE ON ROOF OF BUILDING 1744, WSMR HEADQUARTERS, BY CALIBRATION LABORATORY.

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* LESS THAN $\frac{1}{2}$. = LESS THAN $\frac{1}{2}$, BUT MAKING A TOTAL OF 1.

+ VISIBILITY REDUCED TO 6 MILES OR LESS DUE TO PRECIPITATION AND FOG. \angle DISTANT LIGHTNING--NO THUNDER HEARD.

++ VISIBILITY REDUCED TO 6 MILES OR LESS DUE TO HAZE, DUST AND BLOWING DUST. Ø HEATING DEGREE DAYS.

ØØ MEASUREMENTS IN LANGLEYS, MADE ON ROOF OF BUILDING 1744, WSMR HEADQUARTERS, BY CALIBRATION LABORATORY. T TRACE OF PRECIPITATION.

TABLE IV. MONTHLY AND ANNUAL CLIMATOLOGICAL DATA, "A" STATION, WSMR HEADQUARTERS

ITEM	WINTER	SPRING	SUMMER	FALL	YEAR
TEMPERATURES (°F)					
Mean Maximum	57.4	75.2	92.4	75.5	75.1
Mean Minimum	35.6	52.1	69.4	52.6	52.4
Mean	46.4	63.7	80.9	64.1	63.8
Extremes of Record					
Highest	81	103	106	98	106
Date	2/11/57	5/28/51	*	9/16/51	*
Lowest	-6	16	50	22	-6
Date	1/11/62	3/4/65	6/11/65	11/11/50	1/11/62
DEGREE DAYS (Base 65°F)	1655	431	0	442	2528
RELATIVE HUMIDITY (%)	43	27	38	401	37
SURFACE WINDS (Knots)					
Average Speed	W 5.9	W 8.2	W 5.5	W 5.0	W 6.1
Strongest Gusts	SW 82	W, WSW 74	S 60	W 61	SW 82
Month and Year	12/51	3/51, 5/61	6/62	11/65	Dec. '51
RAINFALL (Inches) Ø					
Percent of Annual	17%	10%	47%	26%	100%
Greatest Monthly	2.43	3.00	7.42	5.76	7.42
Month and Year	12/65	3/58	6/66	9/58	6/66
Greatest 24-Hour	1.02	1.46	4.25	2.96	4.25
Dates	12/14-15/67	3/5-6/58	8/23-24/59	9/11-12/64	1959
SNOWFALL (Inches)					
Greatest Monthly	4.7	0.5	0.0	0.8	6.0
Month and Year	14.9	3.5	0.0	6.2	14.9
	12/67	3/58	- - -	11/61	1967
CLOUDINESS (%)	38	34	41	29	36
NUMBER OF DAYS WITH:					
Measurable Rainfall	10	9	19	10	48
Thunderstorms	1	5	30	8	44
Visibility \leq 6 Miles	10	11	9	6	36
Ø 0.01" or more					
STATION PRESSURE					
Average (Inches of Hg)	25.756	25.670	25.731	24.763	24.730
<p>WINTER = Months of December, January, February. SPRING = March, April, May. SUMMER = June, July, August. Fall = September, October, November.</p> <p>** With Prevailing Wind Directions. To convert knots to miles per hour, multiply knots by 1.15155.</p> <p>* Four Dates: June 28 & 29, 1951; July 8, 1951; July 2, 1960.</p> <p>Ø "Rainfall" includes water content of snowfall.</p>					

TABLE V. "A" STATION CLIMATOGRAPHY--SEASONAL VALUES, 1950-1971